



STATE OF MISSOURI  
MISSOURI DEPARTMENT OF NATURAL RESOURCES  
GEOLOGICAL SURVEY PROGRAM

FORM OGC-3

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

<input checked="" type="checkbox"/> APPLICATION TO DRILL		<input type="checkbox"/> DEEPEN	<input type="checkbox"/> PLUG BACK	<input checked="" type="checkbox"/> FOR AN OIL WELL		<input type="checkbox"/> OR GAS WELL	
NAME OF COMPANY OR OPERATOR Osborn Energy, LLC				DATE 10/20/2006			
ADDRESS 24850 Farley		CITY Bucyrus		STATE KS	ZIP CODE 66013		
<b>DESCRIPTION OF WELL AND LEASE</b>							
NAME OF LEASE Osborn		WELL NUMBER 52-17		ELEVATION (GROUND) 990'			
WELL LOCATION (GIVE FOOTAGE FROM SECTION LINES) 2475 ft. from <input checked="" type="checkbox"/> North <input type="checkbox"/> South section line 427 ft. from <input checked="" type="checkbox"/> East <input type="checkbox"/> West section line							
WELL LOCATION Sec. 17 Township 43 North Range 33 <input type="checkbox"/> East <input checked="" type="checkbox"/> West		LATITUDE		LONGITUDE	COUNTY Cass		
NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE 165 FEET DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED - FOR WELL ON THE SAME LEASE 328 FEET							
PROPOSED DEPTH 600'	DRILLING CONTRACTOR, NAME AND ADDRESS Obborn Energy, LLC			ROTARY OR CABLE TOOLS air	APPROX. DATE WORK WILL START 11/06/2006		
NUMBER OF ACRES IN LEASE 4000	NUMBER OF WELLS ON LEASE INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR 8 NUMBER OF ABANDONED WELLS ON LEASE None						
IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED? NAME ADDRESS				NO. OF WELLS PRODUCING INJECTION INACTIVE ABANDONED			
STATUS OF BOND		<input type="checkbox"/> SINGLE WELL AMOUNT \$		<input checked="" type="checkbox"/> BLANKET BOND AMOUNT \$ 34000.00		<input checked="" type="checkbox"/> ON FILE <input type="checkbox"/> ATTACHED	
REMARKS: (IF THIS IS AN APPLICATION TO DEEPEN OR PLUG BACK, BRIEFLY DESCRIBE WORK TO BE DONE, GIVING PRESENT PRODUCING/INJECTION ZONE AND EXPECTED NEW INJECTION ZONE; USE BACK OF FORM IF NEEDED)							
<b>PROPOSED CASING PROGRAM</b>				<b>APPROVED CASING - TO BE FILLED IN BY STATE GEOLOGIST</b>			
AMOUNT	SIZE	WT/FT	CEMENT	AMOUNT	SIZE	WT/FT	CEMENT
20'	7"		to surface	20'	7"		Portland to Surface
600'	2 7/8"		to surface	600'	2 7/8"		" "
I, the Undersigned, state that I am the Agent of the OELLC (Company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct, and complete to the best of my knowledge.							
SIGNATURE <i>Matthew S. Pean</i>				DATE Oct 25, 2006			
PERMIT NUMBER 20774		<input checked="" type="checkbox"/> DRILLER'S LOG REQUIRED		<input checked="" type="checkbox"/> E-LOGS REQUIRED IF RUN			
APPROVED DATE 11-1-06		<input checked="" type="checkbox"/> CORE ANALYSIS REQUIRED IF RUN		<input checked="" type="checkbox"/> DRILL SYSTEM TEST INFO REQUIRED IF RUN			
APPROVED BY <i>[Signature]</i>		<input type="checkbox"/> SAMPLES REQUIRED		<input checked="" type="checkbox"/> SAMPLES NOT REQUIRED			
		<input type="checkbox"/> WATER SAMPLES REQUIRED AT					
<b>NOTE</b> THIS PERMIT NOT TRANSFERABLE TO ANY OTHER PERSON OR TO ANY OTHER LOCATION.							
APPROVAL OF THIS PERMIT BY THE OIL AND GAS COUNCIL DOES NOT CONSTITUTE ENDORSEMENT OF THE GEOLOGIC MERITS OF THE PROPOSED WELL NOR ENDORSEMENT OF THE QUALIFICATIONS OF THE PERMITTEE							
I, Agent of the OELLC (Company), confirm that an approved drilling permit has been obtained by the owner of this well. Council approval of this permit will be shown on this form by presence of a permit number and signature of authorized council representative.							
DRILLER'S SIGNATURE <i>Matthew S. Pean</i>				DATE Oct 25, 2006			





STATE OF MISSOURI  
MISSOURI DEPARTMENT OF NATURAL RESOURCES  
GEOLOGICAL SURVEY PROGRAM

**WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG**

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FORM OGC-5

FEB 13 2009

☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ INJECTION ☐ SAME RESERVOIR ☐ DIFFERENT RESERVOIR ☒ OIL ☐ GAS ☐ DRY

OWNER <b>Osborn Energy, LLC</b>		ADDRESS <b>24850 Farley, Bucyrus, KS 66013</b>	
LEASE NAME <b>Osborn</b>		WELL NUMBER <b>52-17</b>	
LOCATION OF WELL Sec. 17 Twp 43 North, Rng 33 <input type="checkbox"/> East <input checked="" type="checkbox"/> West OR 2475 ft. from <input checked="" type="checkbox"/> North <input type="checkbox"/> South 427 ft. from <input checked="" type="checkbox"/> East <input type="checkbox"/> West		LATITUDE	LONGITUDE
COUNTY <b>Cass</b>	PERMIT NUMBER (OGC-3 OR OGC-31) <b>20774</b>		
DATE SPUDDED <b>11/18/2006</b>	DATE TOTAL DEPTH REACHED <b>11/20/2006</b>	DATE COMPLETED READY TO PRODUCE OR INJECT <b>12/28/2006</b>	ELEVATION (DF, RKR, RT, OR Gr.) FEET <b>990</b>
TOTAL DEPTH <b>518</b>		ELEVATION OF CASING HD. FLANGE <b>FEET</b>	
PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION <b>452-458</b>		ROTARY TOOLS USED (INTERVAL) <b>Q TO 518</b>	CABLE TOOLS USED (INTERVAL)
WAS THIS WELL DIRECTIONALLY DRILLED? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		DRILLING FLUID USED <b>air</b>	DATE FILED
WAS DIRECTIONAL SURVEY MADE? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		WAS COPY OF DIRECTIONAL SURVEY FILED? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	DATE FILED
TYPE OF ELECTRICAL OR OTHER LOGS RUN (JUST LOGS FILED WITH THE STATE GEOLOGIST) <b>Gamma Ray Neutron</b>			DATE FILED

**CASING RECORD**

CASING (REPORT ALL STRINGS SET IN WELL - CONDUCTOR, SURFACE, INTERMEDIATE, PRODUCING, ETC.)

PURPOSE	SIZE HOLE DRILLED	SIZE CASING SET	WEIGHT (LB. FT)	DEPTH SET	SACKS CEMENT	AMOUNT PULLED
Surface	9 1/2"	7"	17	20'	6	
Production	6 1/4"	2 7/8"	6 1/2"	518	91	

**TUBING RECORD**

**LINER RECORD**

SIZE	DEPTH SET	PACKER SET AT	SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
INCH	FEET	FEET	INCH	FEET	FEET		FEET

**PERFORATION RECORD**

**ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD**

NUMBER PER FEET	SIZE AND TYPE	DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL
2	2" DML RTG	452-458	50gal 15% HCL/ 3000#	452-458

**INITIAL PRODUCTION**

DATE OF FIRST PRODUCTION OR INJECTION <b>12/28/2006</b>		PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING - IF PUMPING, SHOW SIZE AND TYPE OF PUMP.) <b>Pumping 1 1/2" insert bbl</b>					
DATE OF TEST	HOURS TESTED <b>24</b>	CHOKE SIZE	OIL PRODUCED DURING TEST <b>2 BBLS</b>	GAS PRODUCED DURING TEST <b>MCF</b>	WATER PRODUCED DURING TEST <b>2 BBLS</b>	OIL GRAVITY <b>API (CORR.)</b>	
TUBING PRESSURE	CASING PRESSURE	CALCULATED RATE OF PRODUCTION PER 24 HOURS		OIL <b>2 BBLS</b>	GAS <b>0MCF</b>	WATER <b>2 BBLS</b>	GAS OIL RATIO

DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD)

METHOD OF DISPOSAL OF MUD PIT CONTENTS

Let water evaporate, then fill pit with a backhoe

**CERTIFICATE:** I, the Undersigned, state that I am the Agent of the OELLC (Company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

DATE <b>2-10-09</b>	SIGNATURE <i>Curtis Hansen</i>
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## Geological Report

### Osborn 52-17

Section 17-T43N-R33W

Cass Co., Missouri

Permit #20774

Elevation: 994' GL

Drilling Contractor: Osborn Energy, LLC

Spud 11-18-06

Total Rotary Depth: 518' on 11-20-06

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<u>Formation</u>	<u>Driller Log Tops</u>	<u>Datum</u>
Anna Shale (Lexington)	385'	609'
Summit Shale	426'	568'
Mulky Coal/Shale	446'	548'
Squirrel Sand	453'	541'
Total Depth	518'	

453-454 SS: clear, grey, shaly, fine grained, angular to sub-rounded, moderately sorted, well cemented, no show

454-460 SS: clear, frosted, brown oil stain, fine grained, angular to sub-rounded, moderately sorted, poorly cemented, good porosity, strong odor, free oil

460-463 SS: clear, grey, shaly, fine grained, angular to sub-rounded, moderately sorted, well cemented, trace pyrite, some bleed

463-465 SH: grey, sandy, occasional oil on samples

Total Depth 518' on 11-20-06

#### Brief Summary

Lexington	Small open flow
Summit	Small open flow
Squirrel Sand	10' of pay, good bleed

\*Note: Some oil on pit when water turned on @368', GR-N shows small stringer in Wieser Sand @350'

2718

TITLE

W0# 210849

Alam Mader

CEMENTING WORK ORDER

CONSOLIDATED OIL WELL SERVICES, INC.  
Phone (620) 431-9210 Chanute, Kansas 66720

DAY TUE  
DATE 11/28/2006  
Month / Day / Time

NAME OF CUSTOMER: Osborn

LEASE # Osborn WELL # 52

JOB DESCRIPTION longstring

PIPE SIZE: 2 7/8 SIZE OF HOLE: 6 1/4

DEPTH OF WELL: 518

TYPE OF RIG: AIR MUD

AMOUNT OF CEMENT NEEDED: 93 sks 50/50 Poz

% OF GEL NEEDED: 2%

MATERIALS: 91 sks poz, 386# gel

TRUCKS VAC TRANSPORT

LOCATION OF JOB

389-AM, 368-MM, 122-RB

ORDER TAKEN BY: Jim Green

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